Reproductive Toxicology

List of Contents/Author Index/Key Word Index

Volume 8, 1994

PERGAMON

Reproductive Toxicology

Editor-in-Chief

Dr. Anthony R. Scialli, U.S.A.
Reproductive Toxicology Center
Suite 217, 2440 M Street, NW
Washington, DC 20037-1404, U.S.A.

Associate Editors

Dr. Nigel Brown, U.K.
Medical Research Council Laboratories, EETU
St. George's Hospital Medical School
University of London, Cranmer Terrace
London, SW17 ORE, U.K.

Dr. W.S. Webster, Australia
Department of Anatomy
University of Sydney
New South Wales 2006,
Australia

Editorial Board

Diana Anderson, U.K.
Felix Beck, Australia
James S. Bus, U.S.A.
George Cassady, U.S.A.
Gary J. Chellman, U.S.A.
Elaine Faustman, U.S.A.
P.M.D. Foster, U.K.
S.J. Freeman, U.K.
T.J.G. Gray, U.K.
Maureen C. Hatch, U.S.A.
Laird G. Jackson, U.S.A.
Richard Jelinek, Czech Republic
E. Marshall Johnson, U.S.A.
Mont R. Juchau, U.S.A.
D.M. Kochhar, U.S.A.
John W. Larsen, U.S.A.
Grace K. Lemasters, U.S.A.
Richard J. Levine, U.S.A.
Armand Lione, U.S.A.
Donald R. Mattison, U.S.A.
John A. McLachlan, U.S.A.
Richard K. Miller, U.S.A.
Allen A. Mitchell, U.S.A.
Ian Morris, U.K.
Heinz Nau, Germany
Jane E. O'Brien, U.S.A.
James W. Overstreet, U.S.A.
Anthony K. Palmer, U.K.
Rodolfo Paoletti, Italy
Sally D. Perreault, U.S.A.
Barbara R. Pober, U.S.A.
J. Gerald Quirk, U.S.A.
Jerry M. Rice, U.S.A.
Elisabeth Robert, France
Susan Sieber-Fabro, U.S.A.
Joe Leigh Simpson, U.S.A.
Richard G. Skalko, U.S.A.
B.R. Sonawane, U.S.A.
Horst Spielmann, Germany
Frank M. Sullivan, U.K.
Ken Takizawa, Japan
Herbert Tuchmann-Duplessis, France
Steven L. Warsof, U.S.A.
Peter K. Working, U.S.A.
Andrew J. Wyrobek, U.S.A.

Production Editor: Brian S. Jenkins, E-mail Address: B.JENKINS@ELSEVIER.COM

Editorial Office: Anthony R. Scialli, Reproductive Toxicology Center, Suite 217, 2440 M Street, NW, Washington, DC 20037-1404, U.S.A.

Publishing Subscription and Advertising Offices: Elsevier Science Inc., 660 White Plains Road, Tarrytown, NY 10591-5153, U.S.A., E-mail Address: ESUK.USA@ELSEVIER.COM; and Elsevier Science Ltd, The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, England.

Published Bimonthly: *Annual Institutional Subscription Rates* (1995): North, Central, and South America, U.S. $537.00, Rest of World, £360.00. *Professional Subscription Rates* (1995), which must be prepaid by personal cheque or credit card: North, Central, and South America, U.S. $111.00, Rest of World, £74.00. Sterling prices exclude VAT. Non-VAT registered customers in the European Community will be charged the appropriate VAT in addition to the price listed. Prices include postage and insurance and are subject to change without notice.

Pergamon

Reproductive Toxicology, Vol. 8, No. 6, pp. III–XIII, 1994
Copyright © 1994 Elsevier Science Ltd
Printed in the USA. All rights reserved
0890-6238/94 $6.00 + .00

LIST OF CONTENTS
VOLUME 8, 1994

Volume 8, Number 1 1994

CONTENTS

Editorial

J.S. Kesner 1 Addressing the Threat of Occupational Reproductive Toxicity in Russia

Special Articles

O.V. Sivochalova, A.A. Kozhin 5 Protecting the Reproductive Health of the Family

I.V. Nizyayeva 11 Medical and Social Aspects of Work During Pregnancy

Original Contributions

G.P. Daston, G.J. Overmann, D. Baines, M.W. Taubeneck, L.D. Lehman-McKeeman, J.M. Rogers, C.L. Keen 15 Altered Zn Status by α-Hederin in the Pregnant Rat and its Relationship to Adverse Developmental Outcome

M.W. Taubeneck, G.P. Daston, J.M. Rogers, C.L. Keen 25 Altered Maternal Zinc Metabolism Following Exposure to Diverse Developmental Toxicants

M.E. Rahman, H. Ishikawa, Y. Watanabe, A. Endo 41 Carpal and Tarsal Bone Anomalies in Mice Induced by Maternal Treatment of Ara-C

J.F. Rasco, R.D. Hood 49 Effects of Maternal Restraint Stress and Sodium Arsenate in Mice

H. Kaltner, D. Zickert, R. Hellmann, J. Wittmann 55 Toxic Effects of Cyclophosphamide and Methylnitrosourea in Japanese Quail Embryos Depend on the Route of Administration

A. Pastuszak, G. Koren, M.J. Rieder 63 Use of the Retinoid Pregnancy Prevention Program in Canada: Patterns of Contraception Use in Women Treated With Isotretinoin and Etretinate

S.D. Kholkute J. Rodriguez W.R. Dukelow	69	Effects of Polychlorinated Biphenyls (PCBs) on In Vitro Fertilization in the Mouse
N.J. Chinoy J.M. D'Souza P. Padman	75	Effects of Crude Aqueous Extract of *Carica papaya* Seeds in Male Albino Mice
W.J. Swartz C.S. Wink W.D. Johnson	81	Response of Adult Murine Uterine Epithelium to 50% Methoxychlor
		Case Report
P.B. Pandit D. Chitayat A.L. Jefferies A. Landes I.U. Qamar G. Koren	89	Tibial Hemimelia and Tetralogy of Fallot Associated With First Trimester Exposure to Amantadine
		Book Reviews
A.R. Scialli	93	*Chemically Induced Birth Defects* by J.L. Schardein
A.R. Scialli	94	*Medicine of the Fetus and Mother* edited by E.A. Reece, J.C. Hobbins, M.J. Mahoney, and R.H. Petrie
	97	*Announcements*

Volume 8, Number 2 1994

CONTENTS

		Reproductive Toxicology Review
E.W. Carney	99	An Integrated Perspective on the Developmental Toxicity of Ethylene Glycol
		Original Contributions
S. Pati G.D. Helmbrecht	115	Congenital Schizencephaly Associated With In Utero Warfarin Exposure
P.D.C. Brown-Woodman W.S. Webster K. Picker F. Huq	121	In Vitro Assessment of Individual and Interactive Effects of Aromatic Hydrocarbons on Embryonic Development of the Rat

S.J. Freeman **N.A. Brown**	137	Inhibition of Yolk Sac Function in Late Gastrulation Rat Conceptuses as a Cause of Teratogenesis: An In Vivo/In Vitro Study
T. Sato **A. Chiba** **S. Hayashi** **H. Okamura** **Y. Ohta** **N. Takasugi** **T. Iguchi**	145	Induction of Estrogen Receptor and Cell Division in Genital Tracts of Male Mice by Neonatal Exposure to Diethylstilbestrol
N.J. Chinoy **M.V. Narayana**	155	In Vitro Fluoride Toxicity in Human Spermatozoa
		Special Article
E.K. Jordan **J.L. Sever**	161	Fetal Damage Caused by Parvoviral Infections
	191	*Letters to the Editor*
		Book Review
A.R. Scialli	193	*Male Reproductive Toxicology. Methods in Toxicology* (Vol. 3, Part A), edited by R.E. Chapin and J.J. Heindel
	195	*Announcement*

Volume 8, Number 3 1994

CONTENTS

		Reproductive Toxicology Review
E. Robert **A.R. Scialli**	197	Topical Medications During Pregnancy
		Original Contributions
A.J. Bengt Källén	203	Maternal Carbamazepine and Infant Spina Bifida
H. Shamkhani **L.M. Anderson** **C.E. Henderson** **T.J. Moskal** **C.D. Runowicz** **L.F. Dove** **A.B. Jones** **S.G. Chaney** **J.M. Rice** **M.C. Poirier**	207	DNA Adducts in Human and Patas Monkey Maternal and Fetal Tissues Induced by Platinum Drug Chemotherapy

S. Tabacova, R.E. Little, L. Balabaeva, S. Pavlova, I. Petrov 217 Complications of Pregnancy in Relation to Maternal Lipid Peroxides, Glutathione, and Exposure to Metals

Y. Mino, H. Mizusawa, K. Shiota 225 Effects of Anticonvulsant Drugs on Fetal Mouse Palates Cultured In Vitro

M. Ema, R. Kurosaka, H. Amano, Y. Ogawa 231 Embryolethality of Butyl Benzyl Phthalate During Early Pregnancy in Rats

J.A. Hoyt, L.F. Fisher, W.P. Hoffman, D.K. Swisher, D.E. Seyler 237 Utilization of a Short-Term Male Reproductive Toxicity Study Design to Examine Effects of α-Chlorohydrin (3-Chloro-1,2-Propanediol)

R.E. Linder, G.R. Klinefelter, L.F. Strader, J.D. Suarez, N.L. Roberts, C.J. Dyer 251 Spermatotoxicity of Dibromoacetic Acid in Rats After 14 Daily Exposures

P.L. Nayudu, P.S. Kiesel, M.A. Nowshari, J.K. Hodges 261 Abnormal In Vitro Development of Ovarian Follicles Explanted From Mice Exposed to Tetrachlorvinphos

Special Article

R.D. Hood 269 Some Considerations for the Expert Witness in Cases Involving Birth Defects

Book Review

A.R. Scialli 275 *The Changing Face of Beauty*, by S. Romm

277 *Letters to the Editor*

281 *Announcement*

Volume 8, Number 4 1994

CONTENTS

Reproductive Toxicology Review

M.S. Golub 283 Maternal Toxicity and the Identification of Inorganic Arsenic as a Developmental Toxicant

Original Contributions

J.G. Breen, C. Eisenmann, S. Horowitz, R.K. Miller 297 Cell-Specific Increases in Metallothionein Expression in the Human Placenta Perfused With Cadmium

P. Joseph, S.N. Srinivasan, J.Z. Byczkowski, A.P. Kulkarni 307 Bioactivation of Benzo(a)Pyrene-7,8-Dihydrodiol Catalyzed by Lipoxygenase Purified From Human Term Placenta and Conceptal Tissues

S.B. Hooser, D.P. Douds, D.G. DeMerell, P.B. Hoyer, I.G. Sipes 315 Long-Term Ovarian and Gonadotropin Changes in Mice Exposed to 4-Vinylcyclohexene

C.W. Blackburn, C.A. Peterson, H.A. Hales, D.T. Carrell, K.P. Jones, R.L. Urry, C.M. Peterson 325 Nicotine, but not Cotinine, Has a Direct Toxic Effect on Ovarian Function in the Immature Gonadotropin-Stimulated Rat

M.A. Kukucka, H.P. Misra 333 Elevated Concentrations of Ascorbate and Normoxia Suppress Testosterone Production in Cultured Guinea Pig Leydig Cells

C.L. Randall, A.L. Salo, H.C. Becker, K.S. Patrick 341 Cocaine Does Not Influence the Teratogenic Effects of Acute Ethanol in Mice

T.L. McNutt, C. Harris 351 Lindane Embryotoxicity and Differential Alteration of Cysteine and Glutathione Levels in Rat Embryos and Visceral Yolk Sacs

T. Nanbo 363 Disposition Kinetics of Chemicals With Carboxylic, Hydroxyl, and Amino Groups in the Near-Term Fetus of the Rat: Effect of van der Waals Volume on Disposition Kinetic Characteristics

Technical Note

V.L. Slott, R.E. Linder, C.J. Dyer 371 Method of Euthanasia Does Not Affect Sperm Motility in the Laboratory Rat

Book Reviews

E. Robert 375 *Epidemiology of Congenital Heart Disease: The Baltimore–Washington Infant Study, 1981–1989 (Perspectives in Pediatric Cardiology Series, Volume 4)*, edited by C. Ferencz, J.D. Rubin, C. Loffredo, and C.A. Magee

A.R. Scialli	375	*Dietary Factors and Birth Defects*, edited by R.P. Sharma
A.R. Scialli	376	*The Physiology of the Human Placenta*, by K. Page
	379	*Announcements*

Volume 8, Number 5 1994

CONTENTS

Editorial

A.R. Scialli 381 Imagine Having to Read the *Physicians' Desk Reference*

Original Contributions

A.C. Musselman, G.D. Bennett, K.A. Greer, J.H. Eberwine, R.H. Finnell 383 Preliminary Evidence of Phenytoin-Induced Alterations in Embryonic Gene Expression in a Mouse Model

A. Spagnolo, F. Bianchi, A. Calabro, E. Calzolari, M. Clementi, P. Mastroiacovo, P. Meli, G. Petrelli, R. Tenconi 397 Anophthalmia and Benomyl in Italy: A Multicenter Study Based on 940,615 Newborns

J.E. Andrews, M. Ebron-McCoy, T.R. Logsdon, J. Richards, J.M. Rogers 405 Gamma-Glutamyl Transferase (GGT) Activity and Biochemical Characterization of Rat Visceral Yolk-Sac During Gestation With or Without Trypan Blue Exposure

M.K. Sanyal, Y.-L. Li, K. Belanger 411 Metabolism of Polynuclear Aromatic Hydrocarbon in Human Term Placenta Influenced by Cigarette Smoke Exposure

L.A. Magee, G. Koren 419 The Use of Teratogen Information Services for Research: Assessment of Reliability of Data Entry

M.J. Rieder, C. Morrison 425 A Survey of Information Provided by North American Teratogenic Information Services

M. Rajasekaran, W.J.G. Hellstrom, R.L. Sparks, S.C. Sikka 427 Sperm-Damaging Effects of Electric Current: Possible Role of Free Radicals

Technical Note

P. Catalano, E. Weller 433 Statistical Variability: What Does It Mean in Risk Assessment?

Special Article

439 Framework for Provision of Teratology Information Services

Abstracts

443 Abstracts of the Seventh International Conference of the Organization of Teratology Information Services

Book Review

A. Lione 451 *Maternal–Fetal Toxicology, A Clinician's Guide (2nd ed.)*, edited by G. Koren

453 *Announcement*

Volume 8, Number 6 1994

CONTENTS

Editorial

J.S. Bamforth 455 Are Abnormalities of Human Organizational Genes Responsible for Causing Birth Defects?

Reproductive Toxicology Review

P.R. McElhatton 461 The Effects of Benzodiazepine Use During Pregnancy and Lactation

Original Contributions

A.M. Cummings, J.L. Metcalf 477 Mechanisms of the Stimulation of Rat Uterine Peroxidase Activity by Methoxychlor

S.D. Kholkute, J. Rodriguez, W.R. Dukelow 487 Reproductive Toxicity of Aroclor-1254: Effects on Oocyte, Spermatozoa, in Vitro Fertilization, and Embryo Development in the Mouse

M. Piasek, J.W. Laskey 495 Acute Cadmium Exposure and Ovarian Steroidogenesis in Cycling and Pregnant Rats

J.A. Flaws, J.K. Doerr, I.G. Sipes, P.B. Hoyer 509 Destruction of Preantral Follicles in Adult Rats by 4-Vinyl-1-Cyclohexene Diepoxide

F.F. Terol
A. Panchon-Ruiz 515 Growth Variability in Avian Embryos as a Source of Experimental Error

Technical Note

R.O. Davis
C.G. Gravance
D.M. Thal
M.G. Miller 521 Automated Analysis of Toxicant-Induced Changes in Rat Sperm Head Morphometry

531 *Letters to the Editor*

Book Reviews

A.R. Scialli 533 New Help From Old Friends

Drugs in Pregnancy and Lactation (4th ed.), edited by G.G. Briggs, R.K. Freeman, and S.J. Yaffe

Teratogenic Effects of Drugs, A Resource for Clinicians (*TERIS*), by J.M. Friedman and J.E. Polifka

Reproductive Toxicity, Volume 1: Summary Reviews of the Scientific Evidence, edited by F.M. Sullivan, W.J. Watkins, and M.Th. van der Venne

537 Thanks to Our Reviewers

539 *Announcements*

I Volume 8 List of Contents/Author Index/Key Word Index